

Attachment
4 E11

SEQUENCE LISTING

< 110 > HORWITZ, Marshall S.

LOEB, Lawrence A.

< 120 > METHOD FOR PRODUCING NOVEL DNA SEQUENCES WITH
BIOLOGICAL ACTIVITY

< 130 > 032425-001

< 140 > 09/132,231

< 141 > 1998-08-11



< 150 > US 08/316,415

< 151 > 1994-09-30

< 160 > 57

< 170 > PatentIn Ver. 2.0

< 210 > 1

< 211 > 17

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<213> Escherichia coli

<220>

<221> misc_difference

<222> (1)..(9)

<223> Nucleotide at position 9 is n wherein n = a, c, g,
or t.

<400> 1

ccgaattcna tccgatcc

17

<210> 2

<211> 17

<212> DNA

<213> Escherichia coli

<220>

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<222> (1)..(9)

<223> Nucleotide at position 9 is n wherein n = c, g, or
t.

<400> 2

ccgaattena tgatecc

17

<210> 3

<211> 11

<212> DNA

<213> Escherichia coli

<400> 3

tgcggtagtt t

11

<210> 4

<211> 26

<212> DNA

<213> Escherichia coli

<400> 4

aattcttggg egegegtcgg cttgat

26

<210> 5

<211> 24

<212> DNA

<213> Escherichia coli

<400> 5

cgatcaagcc gacgcgcgcc caag

24

<210> 6

<211> 20

<212> DNA

<213> Escherichia coli

<400> 6

tttctgggtg catactcttc

20

<210> 7

<211> 26

<212> DNA

<213> Escherichia coli

<400> 7

tttctgggtg agacctcata ctcttc

26

<210> 8

<211> 20

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<222> (1)..(11)

<223> Nucleotide at position 11 is n wherein n = a, c,
g, or t.

<400> 8

ggggagatct nagatctggg

20

<210> 9

<211> 10

<212> DNA

<213> Escherichia coli

<400> 9

ccccagatct

10

<210> 10

<211> 47

<212> DNA

<213> Escherichia coli

<220>

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<222> (16)..(38)

<223> Nucleotides 16 to 38 are n wherein n = unspecified
bases.

<400> 10

cgccccgagg aacgtnnnnn nnnnnnnnnn nnnnnnnnag tactgct

47

<210> 11

<211> 46

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (18)..(26)

<223> Nucleotides 18 to 26 are n wherein n = unspecified
bases.

<220>

<221> misc_feature

<222> (30)..(35)

<223> Nucleotides 30 to 35 are n wherein n = unspecified
bases.

<400> 11

cgccccagga acgttttnnn nnnnnnagen nnnnnaaagt actgct

46

<210> 12

<211> 47

<212> DNA

<213> Escherichia coli

<400> 12

cgccccgagg aacgtttcc cgtcatgagc atcatcaaag tactgct 47

<210> 13

<211> 57

<212> DNA

<213> Escherichia coli

<400> 13

caagaattct catgtttgac agcttatcat cgataagctt taatgcggta gtttacc 57

<210> 14

<211> 57

<212> DNA

<213> Escherichia coli

<400> 14

gttcttaaga gtacaaactg tcgaatagta gctattcgaa attacgccat caaatag 57

<210> 15

<211> 19

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(15)

<223> Nucleotides 1 to 19 are n wherein n = unspecified
bases.

<400> 15

nnnnnnnnnnnn nnnnnnnnnn

19

<210> 16

<211> 40

<212> DNA

<213> Escherichia coli

<400> 16

ttctcatgtt tgacagctta tcategataa gctttaatgc

40

<210> 17

<211> 40

<212> DNA

<213> Escherichia coli

<400> 17

gtgcagaaac gccgcagggg aaagaactgc gccttgacat 40

<210> 18

<211> 16

<212> DNA

<213> Escherichia coli

<400> 18

ggagccgccg atacgt 16

<210> 19

<211> 19

<212> DNA

<213> Escherichia coli

<400> 19

aaggcagggg gggcgacat

19

<210> 20

<211> 12

<212> DNA

<213> Escherichia coli

<400> 20

cccatgcaaa ta

12

<210> 21

<211> 10

<212> DNA

<213> Escherichia coli

<400> 21

ttccgggtcc

10

<210> 22

<211> 22

<212> DNA

<213> Escherichia coli

<400> 22

tcttgggcgc gcgtcggtt ga

22

<210> 23

<211> 18

<212> DNA

<213> Escherichia coli

<400> 23

gecccttttc tcccttga

18

<210> 24

<211> 23

<212> DNA

<213> Escherichia coli

<400> 24

cgteccctgcc ttgegettgt tcc

23

<210> 25

<211> 25

<212> DNA

<213> Escherichia coli

<400> 25

gegtgtcgggt ccccggtgtct ctcca

25

<210> 26

<211> 19

<212> DNA

<213> Escherichia coli

<400> 26

cgtggcgcccc gtgcctttc

19

<210> 27

<211> 19

<212> DNA

<213> Escherichia coli

<400> 27

ctttcggttg cgggcgtgc

19

<210> 28

<211> 19

<212> DNA

<213> Escherichia coli

<400> 28

cggtagggcgg ccgtgtcgg

19

<210> 29

<211> 19

<212> DNA

<213> Escherichia coli

<400> 29

gggcgggtctc ccggtcggtt

19

<210> 30

<211> 15

<212> DNA

<213> Escherichia coli

<400> 30

ggcgggtggcg gccgc

15

<210> 31

<211> 29

<212> DNA

<213> Escherichia coli

<400> 31

gcccttgctt tgggtggtctt gctcgcctcc

29

<210> 32

<211> 26

<212> DNA

<213> Escherichia coli

<400> 32

tetteggctg gccttegggc gagagt

26

<210> 33

<211> 19

<212> DNA

<213> Escherichia coli

<400> 33

tgtggtgtct gcgcgccccg

19

<210> 34

<211> 21

<212> DNA

<213> Escherichia coli

<400> 34

gtgggcccgcg gctgggggtcc g

21

<210> 35

<211> 41

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (10)..(32)

<223> Nucleotides 10 to 32 are n wherein n = unspecified
bases.

<400> 35

cgccgaggan nnnnnnnnnn nnnnnnnnnn nnagtactgc t

41

<210> 36

<211> 34

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (9)..(31)

<223> Nucleotides 9 to 31 are n wherein n = unspecified
bases.

<400> 36

ccgaggaann nnnnnnnnnnn nnnnnnnnnnn nagt

34

<210> 37

<211> 30

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (5)..(27)

<223> Nucleotides 5 to 27 are n wherein n = unspecified
bases.

<400> 37

ccttnnnnnnn nnnnnnnnnnn nnnnnnnntca

30

<210> 38

<211> 37

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (15)..(32)

<223> Nucleotides 15 to 23 and 27 to 32 are n wherein n

= unspecified bases.

<400> 38

ccgaggaacg ttttnnnnnn nnnagcnnnn nnaaagt

37

<210> 39

<211> 33

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (11)..(28)

<223> Nucleotides 11 to 19 and 23 to 28 are n wherein n

= unspecified bases.

<400> 39

ccttgcaaaa nnnnnnnnnnt cgnnnnnnntt tca

33

<210> 40

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 40

egt ttt cca atg atg agc act ttc aaa

27

Arg Phe Pro Met Met Ser Thr Phe Lys

1

5

<210> 41

<211> 9

<212> PRT

<213> Escherichia coli

<400> 41

Arg Phe Pro Met Met Ser Thr Phe Lys

1 5

<210> 42

<211> 26

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(24)

<400> 42

cgt cat ttt ctg ggt gtc gtt cat ca

26

Arg His Phe Leu Gly Val Val His

1 5

<210> 43

<211> 8

<212> PRT

<213> Escherichia coli

<400> 43

Arg His Phe Leu Gly Val Val His

1 5

<210> 44

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 44

egt ttg ccc gtc atg agc atc atc aaa

27

Arg Phe Pro Val Met Ser Ile Ile Lys

1

5

<210> 45

<211> 9

<212> PRT

<213> Escherichia coli

<400> 45

Arg Phe Pro Val Met Ser Ile Ile Lys

1

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<210> 46

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 46

cgt ttt ccg atg ctt agc aca ata aaa

27

Arg Phe Pro Met Leu Ser Thr Ile Lys

1 5

<210> 47

<211> 9

<212> PRT

<213> Escherichia coli

<400> 47

Arg Phe Pro Met Leu Ser Thr Ile Lys

1 5

<210> 48

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 48

cgt ttt gcc ctc aat agc aca ttt aaa

27

Arg Phe Ala Leu Asn Ser Thr Phe Lys

1 5

<210> 49

<211> 9

<212> PRT

<213> Escherichia coli

<400> 49

Arg Phe Ala Leu Asn Ser Thr Phe Lys

1 5

<210> 50

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 50

egt ttt cct gtg tgt agc acg cat aaa

27

Arg Phe Pro Val Cys Ser Thr His Lys

1

5

<210> 51

<211> 9

<212> PRT

<213> Escherichia coli

<400> 51

Arg Phe Pro Val Cys Ser Thr His Lys

1

5

<210> 52

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 52

cg ttt cca caa ttg agc acc cac aaa

27

Arg Phe Pro Gln Leu Ser Thr His Lys

1 5

<210> 53

<211> 9

<212> PRT

<213> Escherichia coli

<400> 53

Arg Phe Pro Gln Leu Ser Thr His Lys

1 5

<210> 54

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 54

cgt ttt ccc ctt tct agc cac cgt aaa

27

Arg Phe Pro Leu Ser Ser His Arg Lys

1

5

<210> 55

<211> 9

<212> PRT

<213> Escherichia coli

<400> 55

Arg Phe Pro Leu Ser Ser His Arg Lys

1

5

<210> 56

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 56

egt ttt ccc ata cta age cca tct aaa

27

Arg Phe Pro Ile Leu Ser Pro Ser Lys

1 5

<210> 57

<211> 9

<212> PRT

<213> Escherichia coli

<400> 57

Arg Phe Pro Ile Leu Ser Pro Ser Lys

1 5